

## Iraq Rebuilding Office – Scandinavia i/s

مكتب اعادة اعمار العراق – أسكندنافيا

Trade consultant, sale & troubleshooting

استشارات هندسية / طبية ووكالات تجارية عالمية

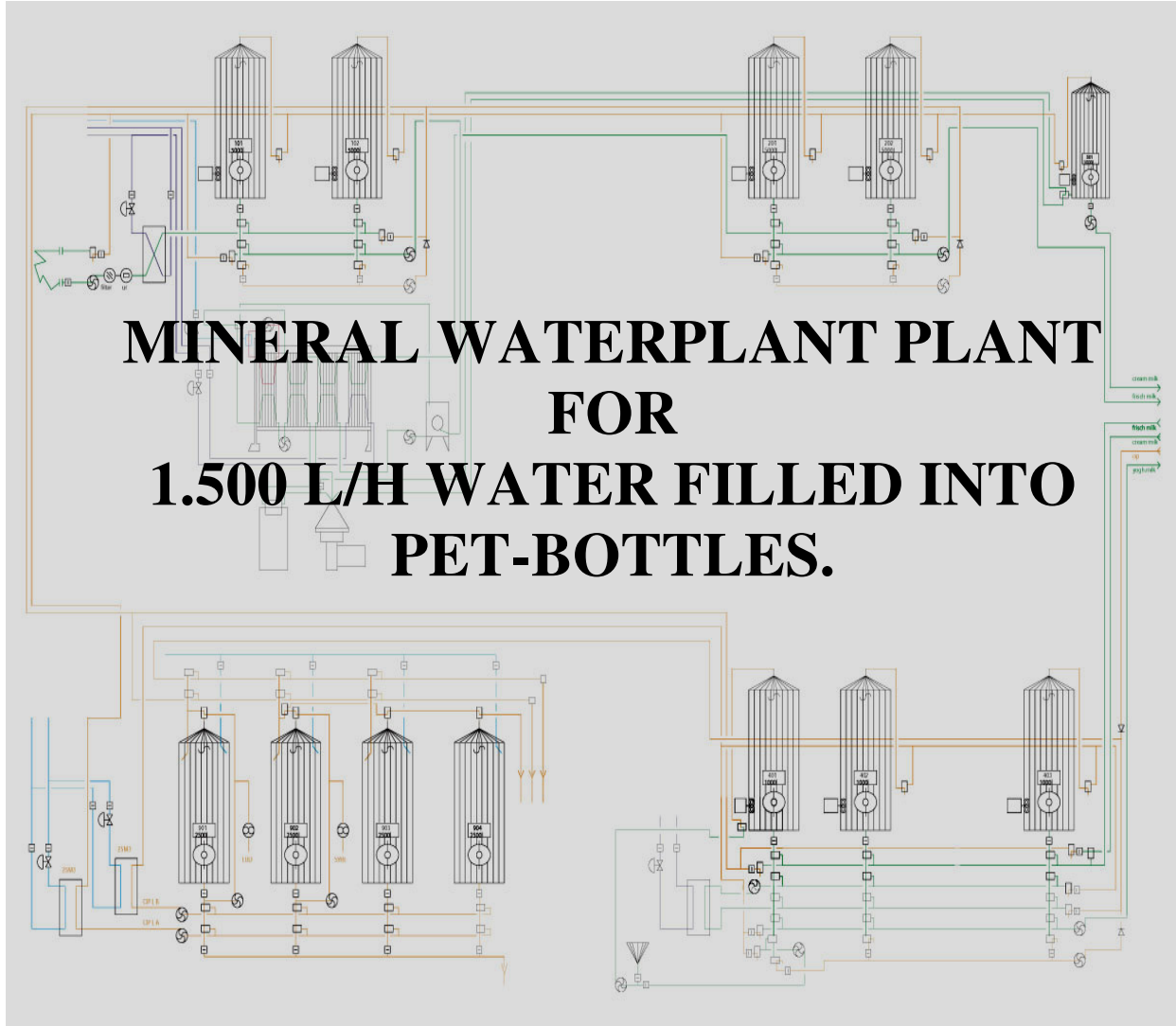


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عرض متكامل بمصنع لانتاج / تعقيم وتعبئة المياه المعدنية في قناني بلاستيكية  
القدرة الانتاجية 1500 لتر/الساعة



### 3.0 TECHNICAL DESCRIPTION

#### 3.1 Basic Data

The plant is designed to pump up ground water, treat it and fill in into PET- Bottles. The capacity is based on 2 working shifts, 14 hour shift and total 300 working days a year.

Total yearly production capacity: 7.665.000 Litres a year

The offered project is based as a complete turn key project where Producer take care of all supply of necessary machinery, equipment and utilities, install it, start it up and train the local workers how to run the machinery and the equipment, how to maintain the equipment and how to test the products. There will as well be following a complete list of spare parts for the machinery as soon as we get the project.

It will for future expansion be possible to add extra machinery and equipment and then use the plant for juice and soft drink processing together with processing of mineral water. All tanks, filling and packing machines can be used for the other mentioned products.

#### 3.2 Location of project

The project is to be built in Iraq.

#### 3.3. Products

Mineral water filled into Pet bottles in size 500 ml and 1500 ml.

### 4.0 LIST OF MACHINERY AND EQUIPMENT

#### *Section 100 – Water Reception*

102	1 pcs.	Stainless steel water pumps. 5.000 l/h. 3.000 rpm.
104	1 pcs.	Stainless steel storage tanks equipped with:  cleaning turbine man-hole level indication agitator  Capacity of each tank: 10.000 l.
106	1 pcs	Water meter

#### *Section 200 – Water treatment units*

201	1 pcs.	Complete water treatment units incl. sand filters, active carbon filters, UV radiation Capacity 1.500 l/h each unit (depending on the customer water sample)
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204	1 pcs.	Stainless steel water pump. 1.500 l/h
205	1 pcs	Stainless steel storage tanks equipped with: <ul style="list-style-type: none"> <li>- cleaning turbine</li> <li>- man-hole</li> <li>- level indication</li> <li>- agitator</li> <li>-</li> </ul> Capacity of each tank: 10.000 l.

***Section 300 – Product Filling and packing***

301	1 pcs.	Filling machine for 500 and 1500 ml pet bottles Capacity 3.000 bottles a hour  1 pcs tray packing machines and 1 pcs shrink tunnels Conveyor belts.
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***Section 350 – Bottle processing machines***

351	1 pcs	PET bottle blow moulding machines Incl 1 mould. Capacity 2.000 pcs/hour for processing of 500 ml pet bottles.
352	1 pcs	PET bottle blow moulding machines Incl 1 mould. Capacity 2.000 pcs/hour For processing of 1500 ml pet bottles.
355	1 pcs	Injection machine for caps. Mould (hot runner and valve gate) cavity 32 Drying system, ice water machine, dehumidify Machine for moulds, conveyor belts 3 meter.

***Section 400 – CIP***

401	1 pcs	CIP-unit. Incl 3 pcs. 1.000 l tanks, plate heater, valves, pumps, dosing pumps, meters for testing concentration of lye and acid, electrical heating system.
402	1 pcs	CIP cleaning wagons

***Section 500 – Piping Systems***

501	1 set	Stainless steel pipes, fittings, valves and installation materials for Product piping
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### ***Section 600 – Water, generator and Compressed Air***

601	1 pcs.	Aircompressor, 2.000 l/min. at 8 bar.
602	1 pcs.	Compressed air dryer.
603	1 pcs	Back up generator for the power supply 300 Kw

### ***Section 700 – Electrical Installation***

701	1 sct.	Electrical installation, Incl. <ul style="list-style-type: none"><li>- Main switchboard inclusive of circuit breakers fuses and switches.</li><li>- Power installation inclusive of cables, cable trays and installation materials.</li></ul>
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### ***Section 800 – Laboratory Equipment***

801	1 sct.	Laboratory equipment for chemical and organoleptic analyses.
802	1 sct.	Laboratory equipment for bacterio-logical analyses.

### ***Section 900 – Spare Parts and workshop tools for maintenance***

901	1 set	Work Shop tools, work benches and utilities for normal Maintenance of the plant.
902	1 set	Normal "wear and tear" parts in sufficient quantities to cover 2 Years normal operation of the plant. Furthermore some essential spare parts are included.

### ***Section 1000 – Mechanical Engineering***

1001		Preparation of all necessary drawings for installation of the Machinery.
1002		Preparation of technical documentation for operation and Maintenance of the machinery and equipment.

### ***Section 1100 – Storage rooms***

Insolation panels and doors  
200 sqm total

**Section 1200 – Installation and commissioning**

1401 3 experts/engineers will be available for the installation and commissioning.

2- Stainless steel engineer

1 – Electrical engineer

The client shall put at disposal 4 - 6 skilled workers to assist the Engineers during the installation and commissioning. these workers can be trained as maintenance people for the Plant.

**Important:** The prices are based on the Buyer supplying Board & Lodging as well as local transport for the experts – likewise the Buyer shall procure and pay for the following.

site office  
crane facilities  
all necessary permits.  
installation tools  
utilities for installation i.e. Argon, Oxygen, welding rods, oils, electricity etc.  
raw materials and utilities for commissioning.

Terms of delivery: The equipment will be partial shipped over 10-14 weeks from opening and confirmed of letter of credit.

Installation time: 1 Month

Total delivery time: From down payment and receiving LC 22-28 month

Terms of payment: 100 % confirmed irrevocable letter of credit coming from a first class bank payable as follows.  
20% down payment, 70% Against shipping documents according to the shipped amount and the last 10% against signed handing over certificate.

Other terms: The customer is in charge of all cost for opening the letter of credit, taxies, vat, incurrence, and transport to the building site.